

## Owner's Instructions

Before operating, please read this manual thoroughly, and retain it for future reference.

Register your product at [www.samsung.com/global/register](http://www.samsung.com/global/register).

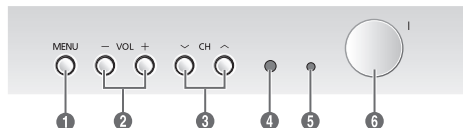
Record your Model and Serial number.

• Model \_\_\_\_\_ • Serial No. \_\_\_\_\_

## Control Panel (depending on the model)

➤ The product colour and shape may vary depending on the model.

### Front (or Side) Panel



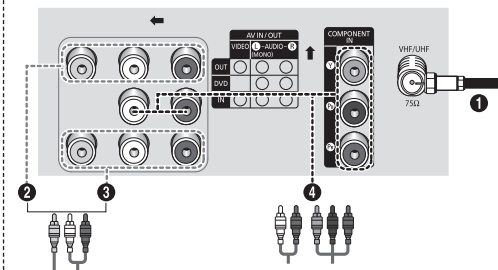
- ❶ On-screen menu display
- ❷ Volume adjustment
- ❸ Channel selection
- ❹ Remote control sensor
- ❺ Standby indicator
- ❻ Power on/off

- ◆ You can use the ❸ buttons to switch the TV on when it is in standby mode depending on the model.
- ◆ The ❷ and ❸ buttons also have the same function as the ◀/▶/▲/▼ buttons on the remote control.
- ◆ If the remote control no longer works or you have misplaced it, you can use the controls on the panel of the television.

## Connection Panel (depending on the model)

➤ The product colour and shape may vary depending on the model.

### Rear Panel



- 🔊 Whenever you connect an audio or video system to your television, ensure that all elements are switched off.
- 🔊 Please be sure to match the colour coded input terminals and cable jacks.

### Connecting to an Aerial or Cable Television Network

Connect the aerial or network input cable to the ❶ (75 Ω coaxial socket).

To view television channels correctly, a signal must be received by the set from one of the sources: an outdoor aerial, cable television network, or satellite network.

If you are using an indoor aerial, you may need to adjust it when tuning your television until you obtain a picture that is both sharp and clear.

### Connecting to the RCA Output

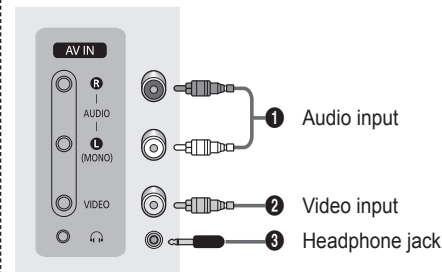
The RCA❷ connectors are used for equipment, such as a recording VCR or audio system.

### Connecting to the RCA Input

The RCA❸ connectors are used for equipment, such as a VCR, DVD, decoder, satellite receiver, video game device, or video disc player. (When using the mono equipment, connect to the AUDIO-L input connector.)

The RCA❹ connectors are used for equipment such as a DVD with component output (480i only).

### Side Jack



➤ Please be sure to match the color coded input terminals and cable jacks.  
When both the side and rear jacks (AV IN) are connected to external equipment, the side receives priority.

### ❶ Audio Input Jacks

Connect audio signals from a camcorder or video game.

### ❷ Video Input Jack

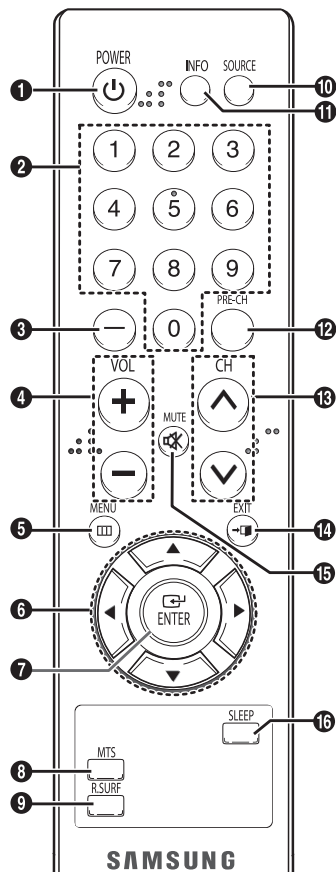
Connect a video signal from a camcorder or video game.

### ❸ Headphone Jack

Connect a set of external headphones to this jack for private listening.

## Remote Control (depending on the model)

- Operation of remote control may be affected by bright artificial light near to the TV.
- This is a special remote control for the visually impaired, and has Braille points on the POWER, Channel and Volume buttons.

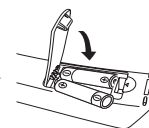


- POWER**  
Turns the TV on and off.
- Number buttons**  
Press to select channels directly on the TV.
- Press to select channels over 100. For example, for channel 122, press "-", then "2", then "2".
- VOL +, VOL -**  
Press to increase or decrease the volume.
- MENU**  
Displays the main on-screen menu.
- ▲/▼/◀/▶**  
Controls the cursor in the menu.
- ENTER**   
While using the on-screen menus, press **ENTER** to activate (or change) a particular item.
- MTS**  
(Multi-channel Television Sound)  
Press to choose "Stereo", "Mono", or "SAP" (Secondary Audio Program).  
➤ This key has a function only when you have selected AV or Component mode
- R.SURF**  
Press to automatically return to a preferred channel after a userpreset time delay.
- SOURCE**  
Press to display all of the available video sources.
- INFO**  
Press to display information on the TV screen.
- PRE-CH**  
Tunes to the previous channel.
- CH ^, CH v**  
Press to change channels.
- EXIT**  
Press to exit the menu.
- MUTE**  
Press to temporarily cut off the sound.
- SLEEP**  
Press to select a preset time interval for automatic shut off.

### Installing Batteries

Remove the cover. Install two AAA size batteries, then replace the cover. When the remote control does not operate normally, check that the "+" and "-" ends of the batteries are inserted correctly or the batteries are drained.

- Do not mix battery types, i.e. alkaline and manganese.



## Turning the TV On and Off

Press the **POWER** button on the remote control. You can also use the **POWER** button on the TV.

## Viewing the Menus

- Press the **MENU** button.  
The main menu is displayed on the screen. Its left side has five icons: "Input", "Picture", "Sound", "Channel", and "Setup".
- Press the **▲** or **▼** button to select one of the icons. Press the **ENTER** button to access the icon's sub-menu.
- Press the **▲** or **▼** button to move to items in the menu. Press the **ENTER** button to enter items in the menu.
- Press the **▲/▼/◀/▶** button to change the selected items. Press the **MENU** button to return to the previous menu.
- Press the **EXIT** button to exit from the menu.

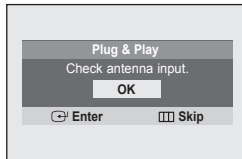
## Setup - Plug & Play

When the TV is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

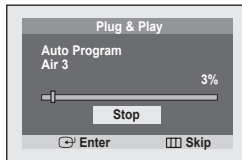
- 1 Press the **POWER** button on the remote control. The "Start Plug & Play" is displayed. Press the **ENTER** button, then the "Check antenna input." is displayed.



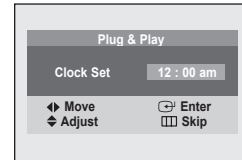
- 2 Make sure that the antenna is connected to the TV. Press the **ENTER** button, then the "Auto Program" is displayed.



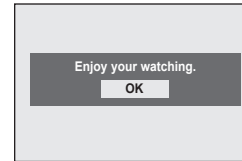
- 3 Press the **ENTER** button to start. The TV begins memorizing all available channels. Press the **ENTER** button to stop.



- 4 After all available channels are stored, the "Clock Set" is displayed. Press the **◀** or **▶** button to move to the hour or minute. Set the clock by pressing the **▲** or **▼** button.



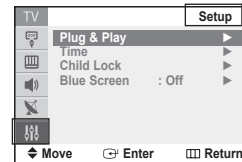
- 5 When you have finished, press the **MENU** button. The "Enjoy your watching." is displayed.
  - Plug & Play feature doesn't work in the AV mode.



### Re-setting the Plug & Play

Method:

**MENU** → **▲/▼** (Setup) → **ENTER** → **▲/▼** (Plug & Play) → **ENTER**

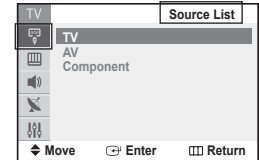


## Input - Source List (depending on the model)

### ◆ Source List

You can switch between viewing signal from connected equipment, such as a VCR, DVD, set-top box, and the TV source (broadcast or cable).

- Press the **SOURCE** button on the remote control repeatedly to select the desired signal source.



*continued...*

## Channel - Memorizing the Channels

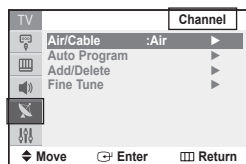
Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the **CH**  $\wedge$  and **CH**  $\vee$  buttons to scan through the channels.

This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: "Air/Cable", "Auto Program" and "Add/Delete".

### ◆ Air/Cable

Before your TV can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

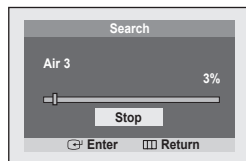
Select "Air" or "Cable" by pressing the **ENTER** button.



### ◆ Auto Program

All available channels are automatically stored in memory when channels are selected by the direct tuning function.

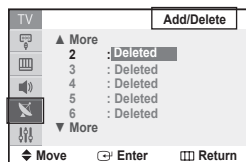
Press the **ENTER** button at any time to interrupt the memorization process.



### ◆ Add/Delete

You can add or delete a channel to display the channels you want only. To use the "Add/Delete" function, first run Auto Program.

Select "Deleted" or "Added" by pressing the **ENTER** button.



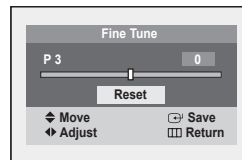
## Channel - Fine Tune

The Fine Tuning function lets you manually adjust the TV's tuner if you have difficulty tuning channels.

Adjust the fine tuning by pressing the  $\blacktriangleleft$  or  $\blacktriangleright$  button.

To store the fine tuning setting in the TV's memory, press the **MENU** button.

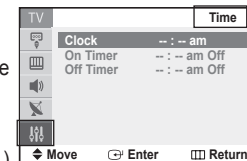
To reset the fine tuning to "0", select "Reset" by pressing the  $\blacktriangle$  or  $\blacktriangledown$  button, then press the **ENTER** button.



## Setup - Time

### ◆ Clock

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the **INFO** button.)



### ◆ On Timer / Off Timer

You can set the On/Off timers so that the TV will switch on or off automatically at the time you select.

➤ You must set the clock first.

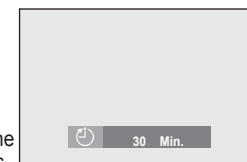
### ◆ Auto Power Off

When you set the timer "On", the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "On" mode and prevents overheating or leakages, which may occur if a TV is on for too long.

## Sleep Timer

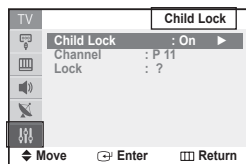
You can select a time period of between 30 and 180 minutes after which the TV automatically switches to standby mode.

Press the **SLEEP** button on the remote control repeatedly until the appropriate time interval appears (any of the preset values from "30 Min." to "180 Min.").



## Setup - Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front (or side) panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.



### ◆ Child Lock : On/Off

You can activate or deactivate the Child Lock function.

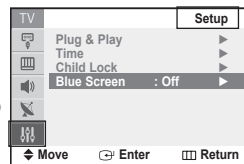
### ◆ Channel : Channel number to be locked.

### ◆ Lock : When press the **ENTER** button, the "Locked" is displayed.

➤ If any channel is locked, you can not access to the "Channel" and "Child Lock" menu by using the control buttons on the TV panel (the "Not Available" is displayed in the "Child Lock" menu). You can access by using the remote control only.

## Setup - Blue Screen

Blue Screen If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" to "Off".

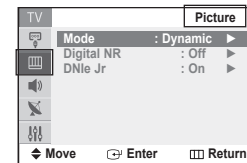


## Picture - Mode / Custom / Color Tone / Digital NR / DNle Jr (depending on the model)

### ◆ Mode:

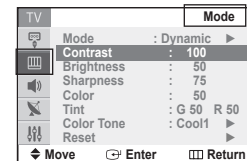
#### Dynamic/Standard Movie/Custom

You can select the type of picture which best corresponds to your viewing requirements.



### ◆ Contrast/Brightness/Sharpness/Color/Tint

The TV has several settings which allow you to control the picture quality.



### ◆ Color Tone: Cool2/Cool1/Normal/Warm1/Warm2

You can change the color of the entire screen according to your preference.

### ◆ Reset

The previously adjusted picture settings will be reset to the factory defaults.

### ◆ Digital NR

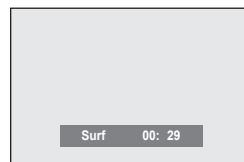
If the signal received by the TV is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

### ◆ DNle Jr (Digital Natural Image engine Junior)

This feature bring you more detailed image with detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, much detailed image to you. **DNle Jr** technology will fit every signals into your eyes.

## R.Surf Feature

This feature allows you to set the TV to return to a particular channel after a certain amount of time. For example, you may be watching a channel when commercials start. You can set the R.Surf to "5 minutes", then switch channels. After minutes, the TV will return to the original channel.

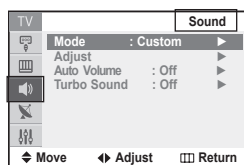


Press the **R.SURF** button on the remote control repeatedly to set the timer in thirty second intervals, up to five minutes.

## Sound - Mode / Adjust / Auto Volume / Turbo Sound

### ◆ **Mode : Standard / Music / Movie / Speech / Custom**

You can select the type of special sound effect to be used when watching a given broadcast.



### ◆ **Adjust : Bass / Treble / Balance**

The television has several settings which allow you to control the sound quality.

➤ If you make any changes to these settings, the sound mode is automatically switched to **Custom**.

### ◆ **Auto Volume** (depending on the model)

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

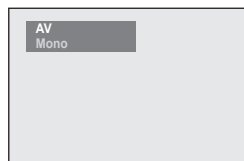
### ◆ **Turbo Sound**

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.

## Sound - MTS (Multi-channel Television Sound)

Depending on the particular program being broadcast, you can listen to "Mono", "Stereo", or "SAP".

Press the **MTS** button on the remote control repeatedly to select "Stereo", "Mono", or "SAP(Secondary Audio Program)"



➤ This key has a function only when you have selected AV or Component mode

## Troubleshooting

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest Samsung authorized service center.

### Poor picture.

- ◆ Try another channel.
- ◆ Adjust the antenna.
- ◆ Check all wire connections.

### Poor sound quality.

- ◆ Try another channel.
- ◆ Adjust the antenna.

### No picture or sound.

- ◆ Try another channel.
- ◆ Press the **SOURCE** button.
- ◆ Make sure the TV is plugged in.
- ◆ Check the antenna connections.
- ◆ Make sure the **MUTE** button is off.

### No color, wrong colors or tints.

- ◆ Make sure the program is broadcast in color.
- ◆ Adjust the picture settings.

### Picture rolls vertically.

- ◆ Adjust the antenna.
- ◆ Check all wire connections.
- ◆ If you are using a VCR, check the tracking.

### The TV operates erratically.

- ◆ Unplug the TV for 30 seconds, then try operating it again.

### Your remote control does not operate your TV.

- ◆ Make sure the remote has batteries.
- ◆ Check that the "+" and "-" ends of the batteries are inserted correctly.
- ◆ Check that the batteries are drained.

### The TV won't turn on.

- ◆ Make sure the wall outlet is working.
- ◆ Make sure the TV is plugged in.
- ◆ Make sure the remote has batteries.






### Remote control malfunctions

- ◆ Replace the remote control batteries.
- ◆ Clean the upper edge of the remote control (transmission window).
- ◆ Check that the "+" and "-" ends of the batteries are inserted correctly.
- ◆ Check that the batteries are drained.

*continued...*

## OSD Map

\*: It is variable depending on model

	Input	- Source List *	- TV / AV / Component
	Picture	- Mode	- Mode Contrast Brightness Sharpness Colour Tint (NTSC only) Colour Tone Reset
		- Digital NR	- Cool2 / Cool1 / Normal / Warm1 / Warm2
		- DNIe Jr *	- Off / On - Off / On
	Sound	- Mode	- Standard / Music / Movie / Speech / Custom
		- Adjust	- Bass / Treble / Balance
		- Auto Volume *	- Off / On
		- Turbo Sound	- Off / On
	Channel	- Air/Cable	- Air / Cable
		- Auto Program	
		- Add/Delete	- Added / Deleted
		- Fine Tune	
	Setup	- Plug & Play	
		- Time	- Clock - On Timer - Off Timer
		- Child Lock	- Child Lock - Channel - Lock
		- Blue Screen	- Off / On

## Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. **Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.** On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

Viewing screen size : 508mm

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